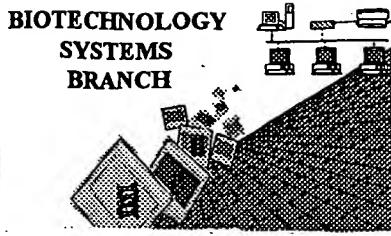


0590  
03061636

**RAW SEQUENCE LISTING  
ERROR REPORT**



**RECEIVED**

MAR 19 2002

TECH CENTER 1600/2900

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 09/941,193  
Source: 1636  
Date Processed by STIC: 3/1/2002

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**
3. **Hand Carry directly to:**  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
**Or**  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

Revised 01/29/2002

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Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>09/941,193</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



1636

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/941,193

DATE: 03/01/2002  
TIME: 14:45:45

Input Set : A:\Seq-sub.app  
Output Set: N:\CRF3\03012002\I941193.raw

Does Not Comply  
Corrected Diskette Needed

## SEQUENCE LISTING

## 4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: BROW, MARY ANN D.  
7 LYAMICHEV, VICTOR I.  
8 OLIVE, DAVID M.  
10 (ii) TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF  
11 PATHOGENS  
13 (iii) NUMBER OF SEQUENCES: 165  
15 (iv) CORRESPONDENCE ADDRESS:  
16 (A) ADDRESSEE: MEDLEN & CARROLL  
17 (B) STREET: 220 MONTGOMERY STREET, SUITE 2200  
18 (C) CITY: SAN FRANCISCO  
19 (D) STATE: CALIFORNIA  
20 (E) COUNTRY: UNITED STATES OF AMERICA  
21 (F) ZIP: 94104  
23 (v) COMPUTER READABLE FORM:  
24 (A) MEDIUM TYPE: Floppy disk  
25 (B) COMPUTER: IBM PC compatible  
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
29 (vi) CURRENT APPLICATION DATA:  
30 (A) APPLICATION NUMBER: US/09/941,193  
31 (B) FILING DATE: 28-Aug-2001  
32 (C) CLASSIFICATION:  
34 (viii) ATTORNEY/AGENT INFORMATION:  
35 (A) NAME: CARROLL, PETER G.  
36 (B) REGISTRATION NUMBER: 32,837  
37 (C) REFERENCE/DOCKET NUMBER: FORS-01756  
39 (ix) TELECOMMUNICATION INFORMATION:  
40 (A) TELEPHONE: (415) 705-8410  
41 (B) TELEFAX: (415) 397-8338

## ERRORED SEQUENCES

44 (2) INFORMATION FOR SEQ ID NO: 1:  
45 (i) SEQUENCE CHARACTERISTICS:  
46 (A) LENGTH: 2506 base pairs  
47 (B) TYPE: nucleic acid  
48 (C) STRANDEDNESS: double  
49 (D) TOPOLOGY: linear  
52 (ii) MOLECULE TYPE: DNA (genomic)  
56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

PP. 2-3

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/941,193

DATE: 03/01/2002  
TIME: 14:45:45

Input Set : A:\Seq-sub.app  
Output Set: N:\CRF3\03012002\I941193.raw

E--> 58 ATGAGGGGGA TGCTGCCCT CTTGAGCCC AAGGCCGGG TCCTCCTGGT  
59 GGACGGCCAC 60  
E--> 61 CACCTGGCCT ACCGCACCTT CCACGCCCTG AAGGCCCTCA CCACCAGCCG  
62 GGGGAGCCG 120  
E--> 64 GTGCAGGCAG TCTACGGCTT CGCCAAGAGC CTCCCTCAAGG CCCTCAAGGA  
65 GGACGGGGAC 180  
E--> 67 GCGGTGATCG TGGTCTTGA CGCCAAGGCC CCCTCCTTCC GCCACGAGGC  
68 CTACGGGGG 240  
E--> 70 TACAAGGCGG GCCGGGGCCC CACGCCGGAG GACTTTCCCC GGCAACTCGC  
71 CCTCATCAAG 300  
E--> 73 GAGCTGGTGG ACCTCCTGGG GCTGGCGCGC CTCGAGGTCC CGGGCTACGA  
74 GCGGACGAC 360  
E--> 76 GTCCTGGCCA GCCTGGCCAA GAAGGCGGAA AAGGAGGGCT ACGAGGTCCG  
77 CATCCTCACC 420  
E--> 79 GCGGACAAAG ACCTTACCA GCTCCTTTC GACCGCATCC ACGTCCTCCA  
80 CCCCGAGGGG 480  
E--> 82 TACCTCATCA CCCCCGGCCTG GCTTTGGGAA AAGTACGGCC TGAGGGCCGA  
83 CCAGTGGGCC 540  
E--> 85 GACTACCGGG CCCTGACCGG GGACGAGTCC GACAACCTTC CGGGGGTCAA  
86 GGGCATCGGG 600  
E--> 88 GAGAAGACGG CGAGGAAGCT TCTGGAGGAG TGGGGAGCC TGGAAAGCCCT  
89 CCTCAAGAAC 660  
E--> 91 CTGGACCGGC TGAAGCCCGC CATCCGGGAG AAGATCCTGG CCCACATGGA  
92 CGATCTGAAG 720  
E--> 94 CTCTCCTGGG ACCTGGCCAA GGTGCGCACC GACCTGCCCT TGGAGGTGGA  
95 CTTCGCCAAA 780  
E--> 97 AGGCAGGGAGC CCGACCGGGGA GAGGCTTAGG GCCTTCTGG AGAGGCTTGA  
98 GTTTGGCAGC 840  
E--> 100 CTCCCTCCACG AGTTGGCCT TCTGGAAAGC CCCAAGGCC TGGAGGAGGC  
101 CCCCTGGCCC 900  
E--> 103 CCGCCGGAAG GGGCTTCGT GGGCTTTGTG CTTCCCGCA AGGAGCCCAT  
104 GTGGGCCGAT 960  
E--> 106 CTTCTGGCCC TGGCCGCCGC CAGGGGGGGC CGGGTCCACC GGGCCCCCGA  
107 GCCTTATAAA 1020  
E--> 109 GCCCTCAGGG ACCTGAAGGA GGCGCGGGGG CTTCTCGCCA AAGACCTGAG  
110 CGTTCTGGCC 1080  
E--> 112 CTGAGGGAAAG GCCTTGGCCT CCCGCCGGC GACGACCCCA TGCTCCTCGC  
113 CTACCTCCTG 1140  
E--> 115 GACCCCTTCCA ACACCACCCC CGAGGGGGTG GCCCGCGCT ACGGCGGGGA  
116 GTGGACGGAG 1200  
E--> 118 GAGGCGGGGG AGCGGGCCGC CCTTTCCGAG AGGCTCTTG CCAACCTGTG  
119 GGGGAGGCTT 1260  
E--> 121 GAGGGGGAGG AGAGGCTCCT TTGGCTTTAC CGGGAGGTGG AGAGGCCCT  
122 TTCCGCTGTC 1320  
E--> 124 CTGGCCCCACA TGGAGGCCAC GGGGGTGCCTC CTGGACGTGG CCTATCTCAG  
125 GGCCCTTGTCC 1380  
E--> 127 CTGGAGGTGG CCGAGGAGAT CGCCCGCCTC GAGGCCGAGG TCTTCCGCCT  
128 GGCCGGCCAC 1440  
E--> 130 CCCTTCAACC TCAACTCCCCG GGACCAGCTG GAAAGGGTCC TCTTGACGA

global format  
err  
all stem 1 on  
Error summary sheet  
  
Due to size  
of sequence listing,  
these pages only is  
shown as a sample  
of global error.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/941,193

DATE: 03/01/2002  
TIME: 14:45:45

Input Set : A:\Seq-sub.app  
Output Set: N:\CRF3\03012002\I941193.raw

131 GCTAGGGCTT 1500  
 E--> 133 CCCGCCATCG GCAAGACGGA GAAGACCGGC AAGCGCTCCA CCAGCGCCGC  
 134 CGTCCTGGAG 1560  
 E--> 136 GCCCTCCGGC AGGCCCACCC CATCGTGGAG AAGATCCTGC AGTACCGGGA  
 137 GCTCACCAAG 1620  
 E--> 139 CTGAAGAGCA CCTACATTGA CCCCTTGCAG GACCTCATCC ACCCCAGGAC  
 140 GGGCCGCCTC 1680  
 E--> 142 CACACCGCT TCAACCAGAC GGCCACGGCC ACGGGCAGGC TAAGTAGCTC  
 143 CGATCCCAAC 1740  
 E--> 145 CTCCAGAACCA TCCCCGTCCG CACCCCGCTT GGGCAGAGGA TCCGCCGGC  
 146 CTTCATCGCC 1800  
 E--> 148 GAGGAGGGGT GGCTATTGGT GGCCCTGGAC TATAGCCAGA TAGAGCTCAG  
 149 GGTGCTGGCC 1860  
 E--> 151 CACCTCTCCG GCGACGAGAA CCTGATCCGG GTCTTCCAGG AGGGGCAGGA  
 152 CATCCACACG 1920  
 E--> 154 GAGACCGCCA GCTGGATGTT CGGGCGTCCCC CGGGAGGCCG TGGACCCCT  
 155 GATGCGCCGG 1980  
 E--> 157 GCGGCCAAGA CCATCAACTT CGGGGTCCCTC TACGGCATGT CGGCCACCG  
 158 CCTCTCCAG 2040  
 E--> 160 GAGCTAGCCA TCCCTTACGA GGAGGCCAG GCCTTCATTG AGCGCTACTT  
 161 TCAGAGCTTC 2100  
 E--> 163 CCCAAGGTGC GGGCCTGGAT TGAGAAGACC CTGGAGGAGG GCAGGAGGCG  
 164 GGGGTACGTG 2160  
 E--> 166 GAGACCCCTCT TCGGCCGCGC CCGCTACGTG CCAGACCTAG AGGCCCAGGT  
 167 GAAGAGCGTG 2220  
 E--> 169 CGGGAGGCCG CCGAGCGCAT GCCCTTCAAC ATGCCCGTCC AGGGCACCGC  
 170 CGCCGACCTC 2280  
 E--> 172 ATGAAGCTGG CTATGGTGAA GCTCTTCCCC AGGCTGGAGG AAATGGGGC  
 173 CAGGATGCTC 2340  
 E--> 175 CTCAGGTCC ACGACGAGCT GGTCTCGAG GCCCCAAAAG AGAGGGCGGA  
 176 GCCCGTGGCC 2400  
 E--> 178 CGGCTGGCCA AGGAGGTCAAT GGAGGGGGTG TATCCCCTGG CCGTGCCCCCT  
 179 GGAGGTGGAG 2460  
 E--> 181 GTGGGGATAG GGGAGGACTG GCTCTCCGCC AAGGAGTGAT ACCACC  
 W--> 182 2506  
 184 (2) INFORMATION FOR SEQ ID NO: 2:  
 186 (i) SEQUENCE CHARACTERISTICS:  
 187 (A) LENGTH: 2496 base pairs  
 188 (B) TYPE: nucleic acid  
 189 (C) STRANDEDNESS: double  
 190 (D) TOPOLOGY: linear  
 192 (ii) MOLECULE TYPE: DNA (genomic)  
 196 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 E--> 198 ATGGCGATGC TTCCCCCTTT TGAGCCAAA GGCCGCGTGC TCCTGGTGG  
 199 CGGCCACAC 60  
 E--> 201 CTGGCCTACC GCACCTTCTT TGCCCTCAAG GGCCCTCACCA CCAGCCGG  
 202 CGAACCCGTT 120  
 E--> 204 CAGGCGGTCT ACGGCTTCGC CAAAAGCCTC CTCAAGGCC TGAAGGAGGA  
 205 CGGGGACGTG 180

See item 1

See item 1